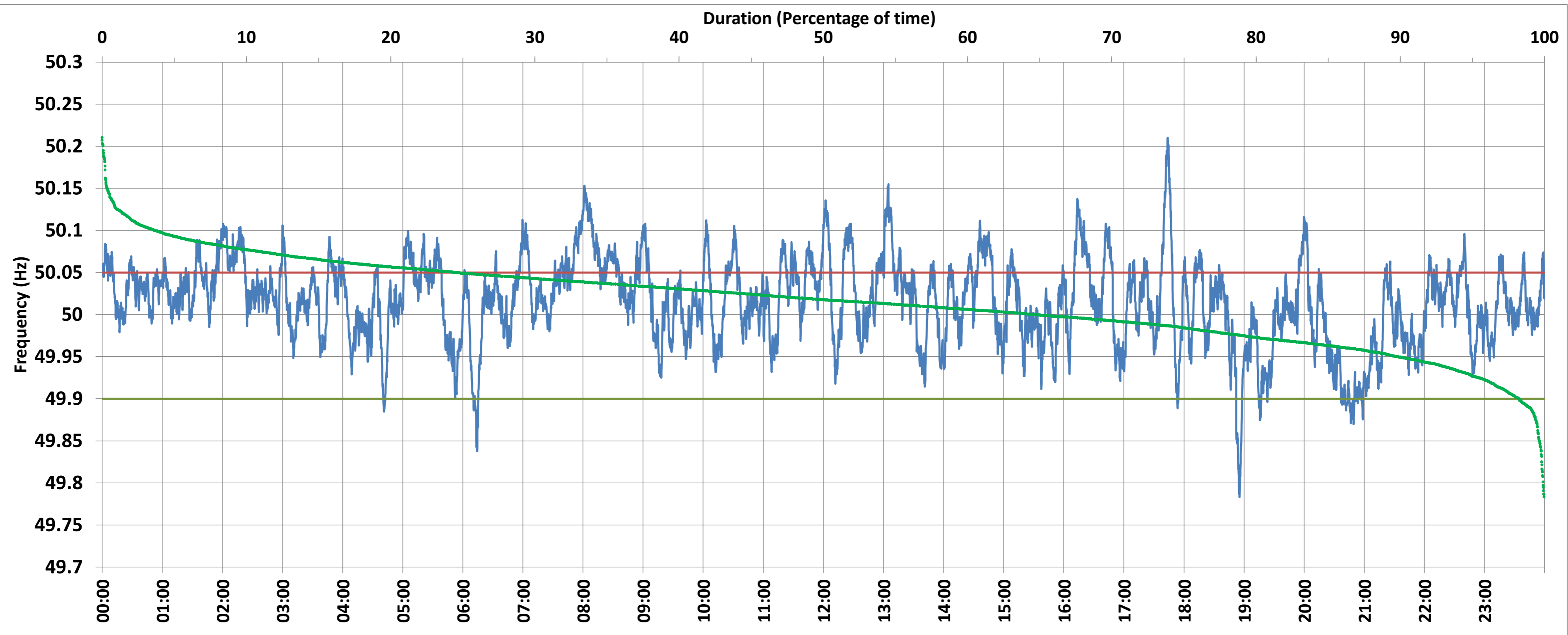


POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE NEW DELHI



MPPTCL BINA:Frequency

National Grid Frequency Profile for 24-Jul-2017



| | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50 | >50.03 | >50.05 | >50.2 |
| 0.00 | 1.76 | 18.67 | 0.07 | 1.69 | 33.76 | 60.84 | 3.55 | 73.87 | 99.92 | 41.15 | 20.83 | 64.44 | 40.19 | 24.38 | 0.08 |

| | | | | | |
|---------------------|--------|-----------------------------|-------|----------------------|-------|
| Average Frequency : | 50.015 | Frequency Variation Index : | 0.028 | Standard Deviation : | 0.051 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|

| | | | | | | | | |
|-------------------------|--------|----------|-----------------------------|--------|----------|----------------------------------|----------------------------------|-----|
| Instantaneous Frequency | | | 15 minute Average Frequency | | | No. of excursions above 50.03 Hz | | 185 |
| Max | 50.210 | 17:43:40 | Max | 50.111 | 8:15:00 | No. of excursions below 49.97 Hz | | 119 |
| Min | 49.783 | 18:55:30 | Min | 49.900 | 21:00:00 | No. of excursions above 50.00 Hz | | 186 |
| | | | | | | | No. of excursions below 50.00 Hz | 184 |

| | | | |
|-----------------------------------------------------|---------|----------------------------------------------------------|---------|
| Average time freq remains below 49.97 per excursion | 0:02:16 | Average time frequency remains above 50.03 per excursion | 0:03:08 |
|-----------------------------------------------------|---------|----------------------------------------------------------|---------|